

Attorney Docket No. 040679-1315

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Applicant:

Takao KAWASAKI et al.

Title:

INTERNAL EGR QUANTITY ESTIMATION, CYLINDER INTAKE

AIR QUANTITY CALCULATION, VALVE TIMING CONTROL,

AND IGNITION TIMING CONTROL

Appl. No.:

09/912,388

Filing Date:

Examiner:

July 26, 2001

J. Corrigan

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TECHNOLOGY CENTER R3700

Art Unit:

3748

AMENDMENT AND REPLY UNDER 37 C.F.R. § 1.111

Commissioner for Patents Washington, D.C. 20231

Sir:

In reply to the Office Action mailed December 16, 2002, please amend the application as follows and consider the following remarks. Enclosed herewith is a Petition for a one-month extension of time to extend the time to respond to April 16, 2003.

In the Claims:

Please add the following new claims 50-54.

- 50. (New) The apparatus as claimed in Claim 42, wherein the internal EGR quantity estimating section uses, as the exhaust valve closing timing, a target exhaust valve closing timing, for calculating the estimated internal EGR quantity.
- 51. (New) The apparatus as claimed in Claim 42, wherein the internal EGR quantity estimating section is configured to calculate a base internal EGR quantity in accordance with the exhaust valve closing timing and the engine speed; to set the estimated internal

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